



## Switchmode Power Supplies

# DT Series

All products conform to IEC 61558 and 60950

### Applications

- Audio
- Bluetooth/WLAN
- Digital cameras
- Communication accessories
- Measurement and weighing technology
- MPEG Players
- Modems DSL, ADSL, VDSL
- Safety technology
- Laboratory equipment

### Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Low standby power
  - ≤ 0.3 Watts (DT 12) resp.
  - ≤ 0.5 Watts (DT 60, DT 100, DT 150)
- Continuously short circuit proof
- High efficiency

### Technical data

- Input voltage**  
**Input current**  
**Frequency**  
**Efficiency**  
**EMC**
- 100 to 240 V AC (± 10 %)  
300 mA (DT 12), 1500 mA (DT 100),  
1600 mA (DT 60), 2000 mA (DT 150)  
50 to 60 Hz  
up to 91 % typ. at full load  
Conforms to EN 55011,  
EN 55022/B, FCC 47 part 15, EN 61000-3-2,  
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,  
EN 61000-4-5, EN 61000-4-6, EN 61000-4-11  
±2% (without consideration of the output lead)
- Output voltage tolerance**

### Environmental specification

- Operating temperature**  
**Storage temperature**  
**Humidity**  
**Input transient susceptibility**
- 0 to 40° C at maximum load  
-10 to 70° C  
10 % to 95 % non condensing  
Complies with IEC 61000 requirements

### Safety specification

- Standards**
- Fulfils class II, SELV according to following standards: IEC/EN/UL 60950, DT 100 and DT 150 fulfils class I.

### Reliability specification

- MTBF calculation**
- 200.000 hours at maximum load and an ambient temperature of 25° C (in accordance with MIL-HDBK-217)

### Mechanical specification

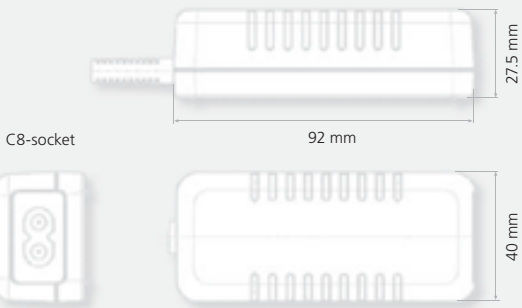
- Weight approx.**  
**Plug connector**
- 135 g (DT 12), 260 g (DT 60),  
500 g (DT 100), 622 g (DT 150)  
AC input: 2-pole IEC 320,  
C8-socket (DT 12, DT 60)  
C14-socket (DT 100, DT 150)  
DC output (not DT 150):  
Universal output plug system (page 34)

For power cords see page 34

DT 12 FW 7402



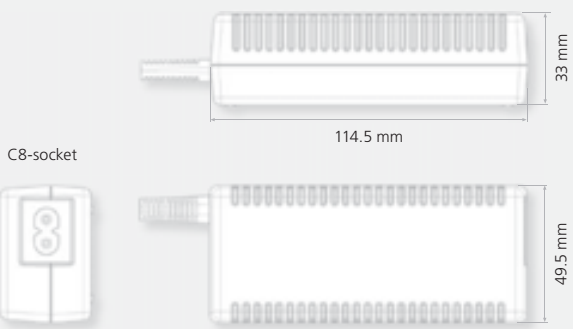
12 Watts



DT 60 DT 60



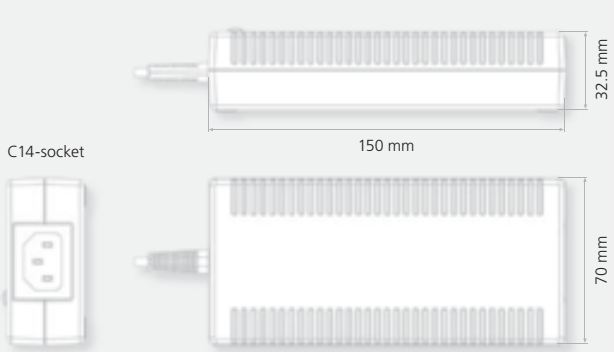
60 Watts



DT 100 DT 100



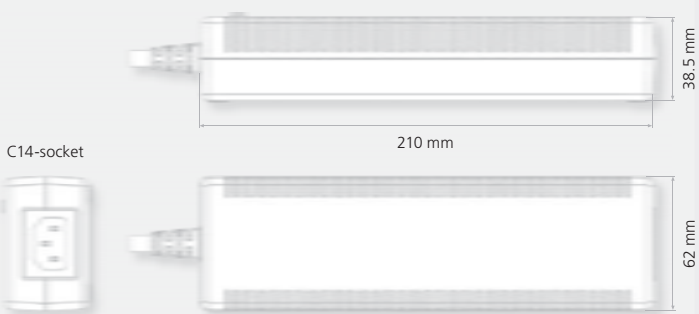
100 Watts



DT 150 DT 150



150 Watts



| Output data |         |                | Worldwide |
|-------------|---------|----------------|-----------|
| Voltage     | Current | Ripple Voltage | Order No. |
| 5 V         | 2000 mA | 200 mV pp      | 1893922   |
| 5,9 V       | 1700 mA | 200 mV pp      | 1893923   |
| 7,5 V       | 1400 mA | 180 mV pp      | 1893924   |
| 9 V         | 1200 mA | 135 mV pp      | 1893925   |
| 12 V        | 1000 mA | 180 mV pp      | 1893926   |
| 15 V        | 800 mA  | 112 mV pp      | 1893927   |
| 18 V        | 660 mA  | 135 mV pp      | 1893928   |
| 24 V        | 500 mA  | 300 mV pp      | 1893929   |
| 48 V        | 250 mA  | 480 mV pp      | 1893930   |

| Output data |         |                | Worldwide |
|-------------|---------|----------------|-----------|
| Voltage     | Current | Ripple Voltage | Order No. |
| 12 V        | 5000 mA | 250 mV pp      | 1830993   |
| 15 V        | 4000 mA | 250 mV pp      | 1830994   |
| 18 V        | 3300 mA | 250 mV pp      | 1830995   |
| 24 V        | 2500 mA | 250 mV pp      | 1831363   |

| Output data |         |                | Worldwide |
|-------------|---------|----------------|-----------|
| Voltage     | Current | Ripple Voltage | Order No. |
| 24 V        | 4170 mA | 240 mV pp      | 1891551   |

| Output data |         |                | Worldwide |
|-------------|---------|----------------|-----------|
| Voltage     | Current | Ripple Voltage | Order No. |
| 24 V        | 6250 mA | 240 mV pp      | 1894781   |